

FIG. 1

FIG. 2 is a block diagram of a network device 200. The network device 200 includes a routing processor 210, a lifetime processor 212, a routing table 214, and a control plane 218. The network device 200 is connected to a network 220 via a network interface 222. The network device 200 also includes a data plane 224. The network device 200 is configured to receive packets from the network 220 and process them according to the routing table 214. The routing processor 210 and the lifetime processor 212 are configured to manage the routing table 214. The control plane 218 is configured to manage the network device 200. The data plane 224 is configured to forward packets to the network 220.

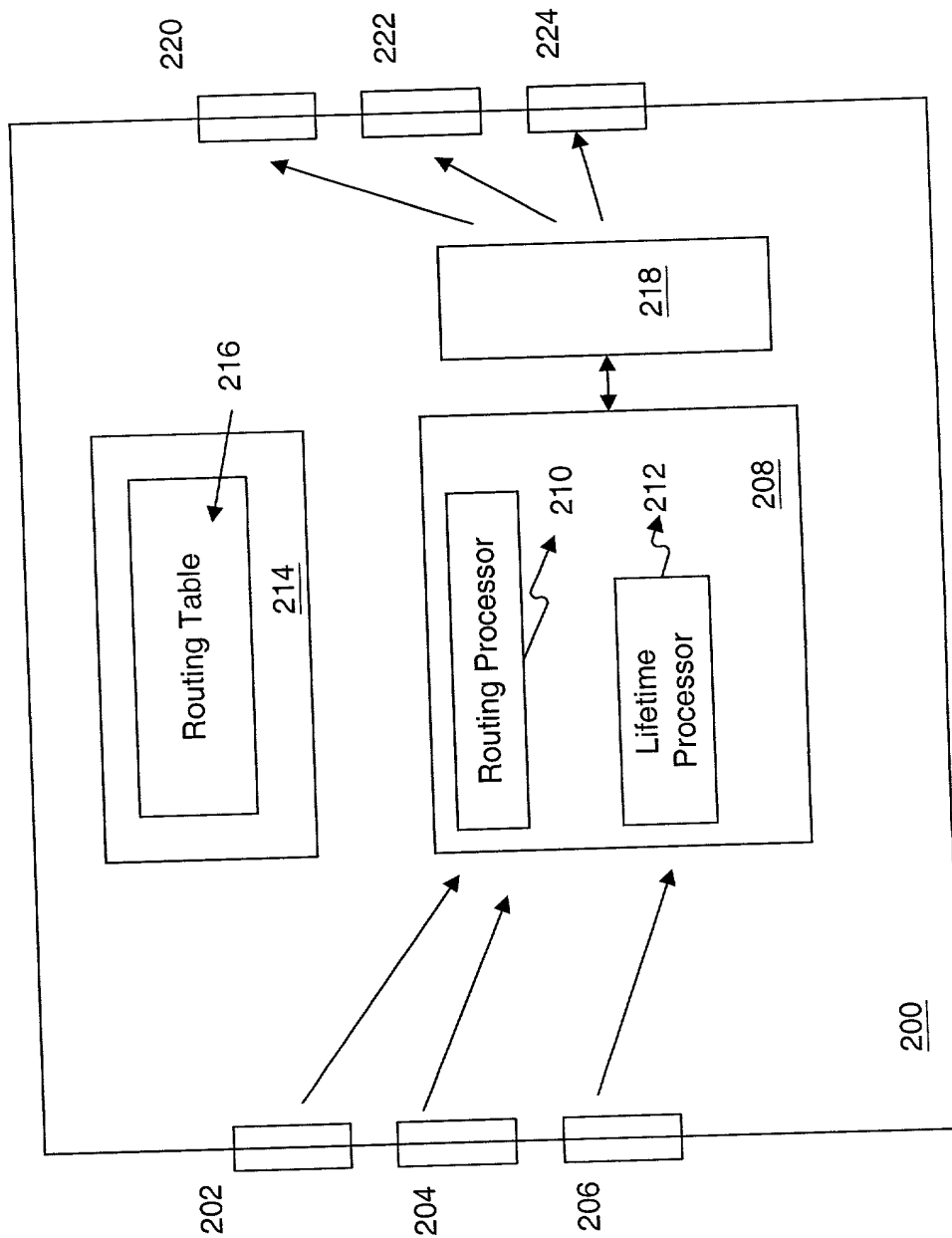


FIG. 2

| 300<br>Destination | 302<br>Next Hop | 304<br>Metric |
|--------------------|-----------------|---------------|
| 100                | 100             | 1             |
| 102                | 110             | 4             |
| 102                | 112             | 5             |
| 104                | 110             | 4             |
| 104                | 112             | 3             |
|                    |                 |               |

214

**FIG. 3**

FIG. 4 is a block diagram of a packet structure 400. The packet structure 400 includes a header 402 and a payload 410. The header 402 includes a TTL field 404, a Source field 406, and a Dest field 408.

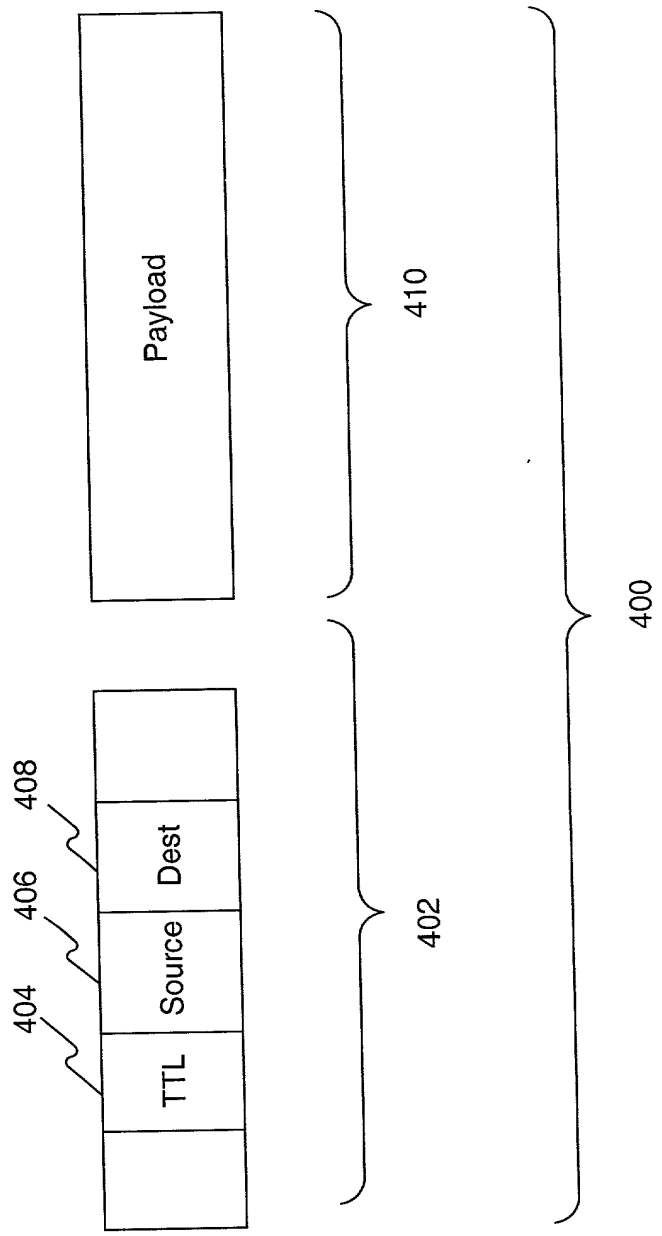
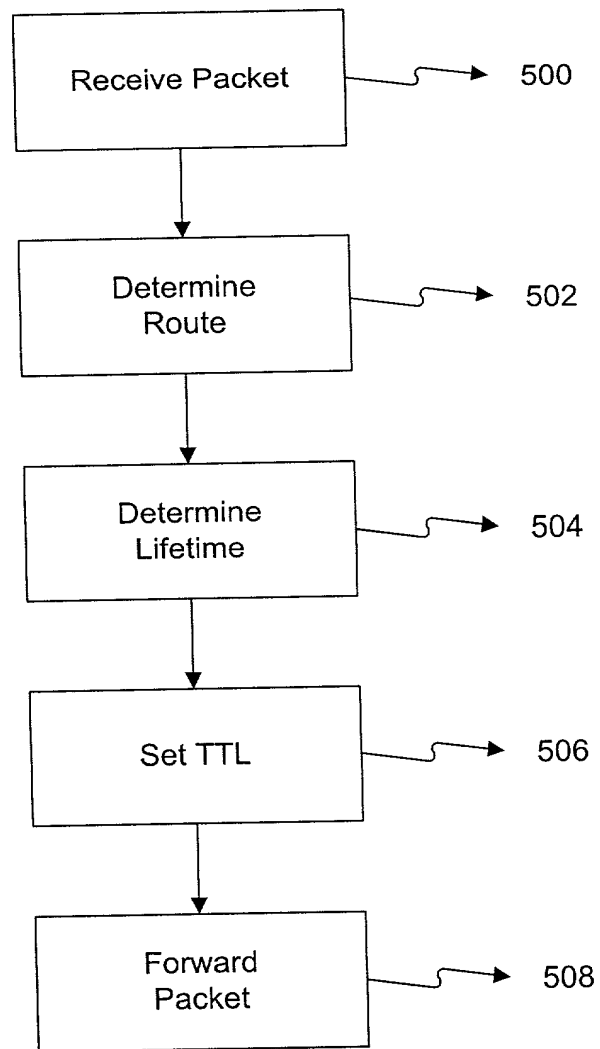
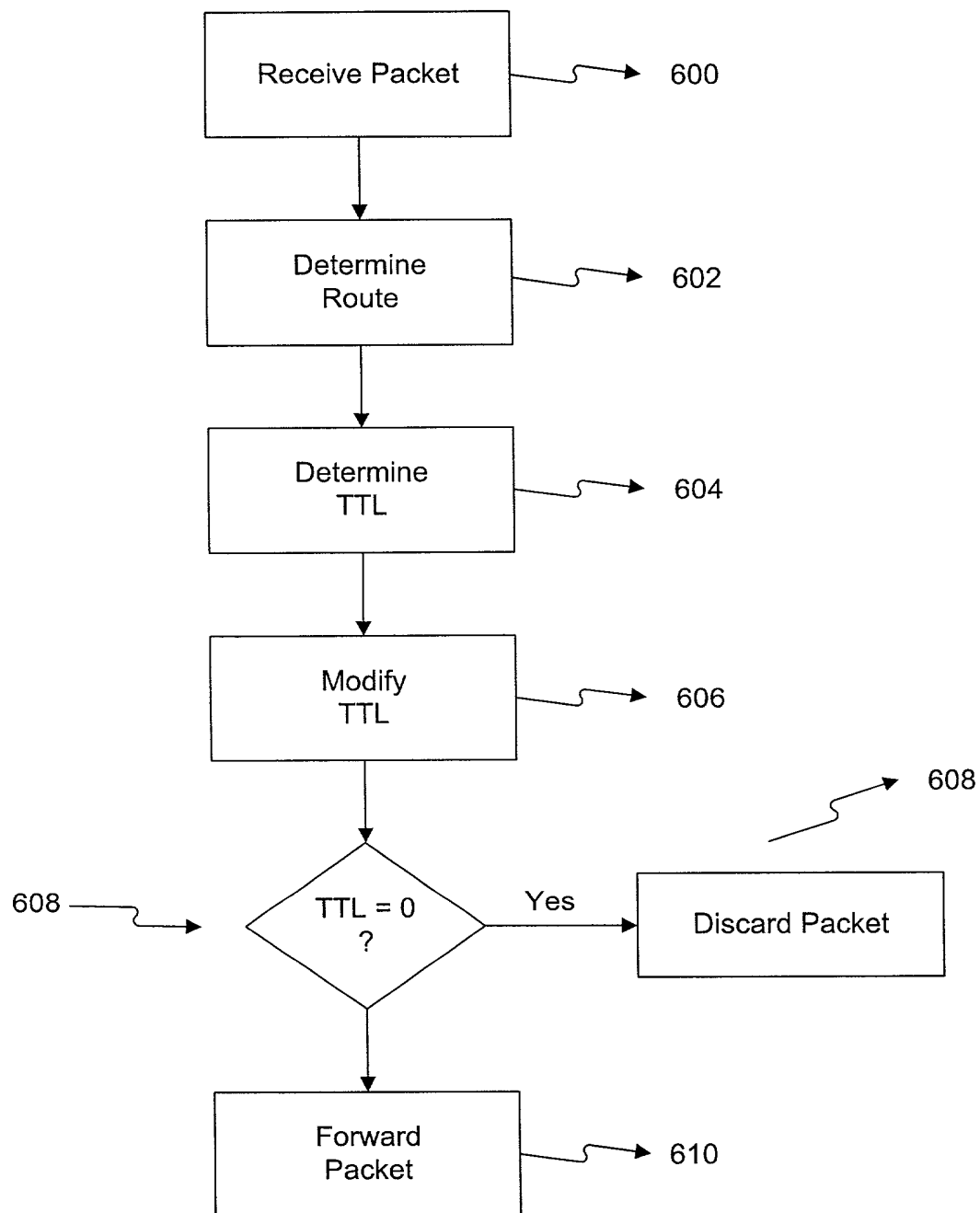


FIG. 4



**FIG. 5**



**FIG. 6**